DEPARTMENT OF SAFETY AND INSPECTIONS
Ricardo X. Cervantes, Director

CITY OF SAINT PAUL
Christopher B. Coleman, Mayor

375 Jackson Street, Suite 220
Saint Paul, Minnesota 55101-1806

Telephone: 651-266-8989
Facsimile: 651-266-9124
Web: www.stpaul.gov/dsi

Code Compliance Report

March 23, 2012

Housing and Redevelopment
25 W 4th St Ste 1300
St Paul MN 55102

Re: 653 Cook Ave E
File#: 11 296013 VB2

Dear Property Owner:

The following is the Code Compliance report you requested on February 13, 2012.

Please be advised that this report is accurate and correct as of the date March 23, 2012. All deficiencies identified by the City after this date must also be corrected and all codes and ordinances must be complied with. This report is valid for 365 days from March 23, 2012. This report may be used in lieu of a Truth in Housing Report required in St Paul Legislative Code 189. This building must be properly secured and the property maintained at all times.

In order to sell or reoccupy this property the following deficiencies must be corrected:

BUILDING Inspector: Jim Seeger Phone: 651-266-9046

- Tuck Point interior/exterior of foundation as necessary.
- Dry out basement and eliminate source of moisture.
- Remove mold, mildew and moldy or water damaged materials.
- Install handrails (34 inches - 38 inches above each nosing) and guardrails (36 inch minimum) at all stairways, and return hand rail ends into a newel post or wall per attachment.
- Strap or support top of stair stringers for structural stability.
- Repair or Replace any deteriorated window sash, broken glass, sash holders, re-putty, etc as necessary.
- Provide complete storms and screens, in good repair for all door and window openings.
- Provide functional hardware at all doors and windows
- Exit doors shall be capable of being opened from the inside, easily and without the use of a key. Remove all surface bolts.
- Repair or replace damaged doors and frames as necessary, including storm doors.
- Weather seal exterior doors, threshold and weather-stripping.
- Repair walls, ceiling and floors throughout, as necessary.
- Air-seal and insulate attic/access door and insure 22 x 30 opening.

BUILDING Inspector: Jim Seeger Phone: 651-266-9046

- Prepare and paint interior and exterior as necessary. Observe necessary abatement procedures (EPA, MPCA and St. Paul Legislative Code, Chapter 34 for additional information) if lead base paint is present.
- Provide fire block construction as necessary and seal chases in basement ceiling.
- Where wall and ceiling covering is removed install full thickness or code-specified insulation.
- Install Smoke Detectors/Carbon Monoxide Detectors per MN Conservation Code and the MN Dept. of Labor and Industry: Install per code where feasible.
- Provide major clean-up of premises.
- Repair siding, soffit, fascia, trim, etc. as necessary.
- Provide proper drainage around house to direct water away from foundation of house.
- Install downspouts and a complete gutter system.
- Install rain leaders to direct drainage away from foundation.
- Install flashing in an approved manner at the intersection of the roof with walls, chimneys, and other conjoined surfaces.
- Provide durable, dustless parking surface as specified in the zoning code.
- Provide ground cover capable of controlling sediment and erosion.
- Review all applicable codes & policies when replacing windows including egress windows for sleeping rooms.
- Openings in stair risers must be less than 4 inches.
- Grade must drain away from foundation of dwelling. Maintain 6 inch clearance between wood and soil.
- Repair fence as needed or remove.
- Repair freeze board or replace and install flashing as needed.
- Remove old garage foundation and install parking pad or garage.
- Provide proper drainage on east side, north side and west side of house and insure 6 inch clearance from grade to siding or trim boards.
- Re level front porch and replace all decayed rim joist and framing as needed.
- Repair and re level basement stairs, install guardrail, handrail and riser boards.
- Replace front steps.
- Re grade around entire house.
- Install grippable handrail at street sidewalk,
- Repair front porch roof as needed and insure flashing to code at roof siding connection.
- Repair foundation as necessary by east side and rear foundation and install vapor barrier in crawl space.
- A building permit is required to correct the above deficiencies.

ELECTRICAL Inspector: Dan Moynihan Phone: 651-266-9036

- Ground the electrical service to the water service with a copper conductor within 5 feet of the entrance point of the water service
- Bond around water meter with a copper wire sized for the electrical service per Article 250 of the NEC.

ELECTRICAL Inspector: Dan Moynihan Phone: 651-266-9036

- Provide a complete circuit directory at service panel indicating location and use of all circuits
- Install S type fuse adapters and proper size S fuses.
- Remove all cord wiring hood fan.
- Check all outlets for proper polarity and verify ground on 3-prong outlets. No power at time of inspection.
- Install hard-wired, battery backup smoke detector per bulletin 80-1 and other smoke detectors as required by the IRC. Also, Install carbon monoxide detector(s) within 10 feet of all bedrooms
- Replace all painted-over receptacles.
- Properly wire switch by back door.
- Based on repair list purchase permit for 7 circuits.
- All added receptacles must be grounded, tamper-resistant and be on an Arc-Fault Circuit Interrupter-protected circuit.
- Any open walls or walls that are opened as part of this project must be wired to the standards of the current NEC.
- All buildings on the property must meet the St. Paul Property Maintenance Code (Bulletin 80-1).
- All electrical work must be done by a Minnesota-licensed electrical contractor under an electrical permit.

PLUMBING Inspector: Rick Jacobs Phone: 651-266-9054

- Basement - Water Heater - T and P relief discharge piping incorrect (MPC 2210 Subp. 4)
- Basement - Water Heater - Water piping incorrect (MPC 1730 Subp. 1)
- Basement - Water Heater - gas venting incorrect (IFGC 503)
- Basement - Water Heater - not fired or in service (MPC 2180)
- Basement - Water Meter - meter is removed or not in service (MPC 4715.1700)
- Basement - Water Meter - meter needs repair or is broken
- Basement - Water Meter - raise meter to a minimum 12 inches above floor (MPC 2280)
- Basement - Water Meter - service valves not functional or correct (MPC 1800 Subp 3,4)
- Basement - Water Piping - add appropriate hangers (MPC 1430 Subp. 4)
- Basement - Water Piping - boiler fill water line requires backflow assembly or device (MPC 2100)
- Basement - Water Piping - improper fittings or usage (MPC 0420)
- Basement - Water Piping - improper piping or usage (MPC 0520)
- Basement - Water Piping - pipe sizing incorrect (MPC 4715.1730)
- Basement - Water Piping - provide water piping to all fixtures and appliances (MPC 1700)
- Basement - Water Piping - repair or replace all corroded, broken or leaking piping (MPC 4715.1720)
- Basement - Water Piping - run 1 inch water line from meter to first major take off (SPRWS Water Code)
- Basement - Water Piping - missing - replace to code.

PLUMBING Inspector: Rick Jacobs Phone: 651-266-9054

- Basement - Gas Piping - dryer gas shutoff; connector or piping incorrect (IFGC 402.1)
- Basement - Gas Piping - run dryer vent to code (IFGC 613.1 - IMC 604.1)
- Basement - Laundry Tub - provide a vacuum breaker for the spout (MPC 2000 B)
- First Floor - Sink - properly cap old kitchen sink waste line on kitchen north wall properly.
- First Floor - Gas Piping - range gas shut off; connector or piping incorrect (IFGC 411 1.3.3)
- First Floor - Toilet Facilities - fixture is broken or parts missing (MPC 0200 0.)
- First Floor - Tub and Shower - provide stopper (MPC 1240)
- Exterior - Lawn Hydrants - Requires backflow assembly or device (MPC 2000)
- Obtain plumbing permits prior to commencement of work.

HEATING Inspector: Maureen Hanson Phone: 651-266-9043

- Clean and Orsat test furnace burner. Check all controls for proper operation. Check furnace heat exchanger for leak; provide documentation from a licensed contractor that the heating unit is safe
- Vent clothes dryer to code
- Plug, cap and/or remove all disconnected gas lines
- Provide a window in the bathrooms with an aggregate glazing area of not less than 3 square feet, one-half of which must be openable or provide exhaust system vented to outside. A mechanical ventilation permit is required if an exhaust system is installed.
- Clean all supply and return ducts for warm air heating system
- Mechanical gas permit is required for the above work.

ZONING

1. This property is in a(n) RT1 zoning district.
2. This property was inspected as a Single Family Dwelling.

Notes:

- See attachment for permit requirements and appeals procedure.
- Most of the roof covering could not be inspected from grade. Recommend this be done before rehabilitation is attempted.
- Roof, sidewalks, etc. snow covered and could not be inspected. All must meet appropriate codes when completed.

This is a registered vacant building. In order to sell or reoccupy this building, all deficiencies listed on this code compliance report must be corrected in accordance with the Minimum Housing Standards of the St. Paul Legislative Code (Chapter 34) and all required permits must receive final approval within six (6) months of the date of this report. One (1) six-month time extension may be requested by the owner and will be considered if it can be shown that the code compliance work is proceeding and is more than fifty (50) percent complete in accordance with Legislative Code Section 33.03(f).

You may file an appeal to this notice by contacting the City Clerk's Office at 651-266-8688. Any appeal must be made in writing within 10 days of this notice. (You must submit a copy of this notice when you appeal, and pay a filing fee.)

If you have any questions regarding this inspection report, please contact Jim Seeger between 7:30 - 9:00 AM at 651-266-9046 or leave a voice mail message.

Sincerely,

James L. Seeger
Code Compliance Officer
Department of Safety and Inspections
City of Saint Paul
375 Jackson Street, Suite 220
Saint Paul MN 55101
Phone: 651-266-9046
Email: james.seeger@ci.stpaul.mn.us

JLS:ml
Attachments

Neighborhood Energy Connection
Residential Energy Specification

Customer: City of Saint Paul

Auditor: Michael Childs

Address: 653 Cook Ave E

Phone: 651-221-4462 x145

Spec ID#	Spec Title	Specification	Location / Notes
Option A:	Replace Furnace with 95% AFUE Forced Air Furnace	Remove existing furnace, recycle all metal components and dispose of all other materials in a code legal dump. Install a new ENERGY STAR rated, gas-fired, forced air furnace with a minimum AFUE rating of 95% with 2" rise above floor. Connect to existing duct work and gas line. New furnace to be vented with PVC piping per manufacturer's specifications. New furnace will have minimum limited warranties of 20 years on heat exchangers; 5 years on parts. Include auto set back thermostat controls, vent pipe & new shut-off valve. Rework cold air return if necessary to ensure easy access, good fit & easy replacement of air filter. An exterior return air filter box shall be installed on one side, both sides or bottom of new furnace. Seal all exposed duct joints with duct mastic. Remove all existing cloth duct tape prior to installing mastic.	
	Replace Water Heater with Power Vented .67 EF	Replace water heater with a power-vented water heater with an EF of .67. Include pressure & temperature release valve, discharge tube to within 6" of floor and PVC flue to power vent to exterior.	
Option B:	Replace Furnace and Water Heater with a combined space and water heating system	Install a 95%+ condensing water heater with a hydronic air handler sized to meet load of the house for space and water heating. Consult NEC for more details if needed	

310	Install central air conditioner unit	Install 16 SEER split system central air conditioning unit, following local building code. Using OEM performance information and industry-approved procedures, confirm that the selected equipment satisfies/meets the load requirements at the system design conditions.	
500	Seal Attic Bypasses	Contractor shall seal all attic bypasses. Bypasses shall be defined as any break in the envelope of a house between a heated living space and an unheated area or exterior. Bypass locations include, but are not limited to, the following areas: chimneys, soil stacks, end walls, dropped ceilings, open plumbing walls, beneath knee walls and around duct work, electrical work and attic access points. Bypasses shall be sealed in such a manner that the movement of air through the bypass is essentially stopped. "Essentially stopped" means that air leakage will not be detected by an infrared scan when the house is pressurized to 30 Pascals. Materials to be used for sealing bypasses depend on the size and location of the bypass and meet code requirements. These materials include high quality caulks (20-year life span), polyethylene rod stock, foam, sheetrock, sheet metal, extruded polystyrene and densely packed insulation.	
508	Blow Open Attic to R-50 or above	All bypasses shall be sealed before insulating in such a manner that the movement of air through the bypass is essentially stopped. Blow cellulose insulation, consistently and evenly to R-50. Insulation in the peak attic must be marked with a ruler to measure depth and a sign with the number of bags used and the date of the installation.	**This is 1st floor rear attic.**

510	Blow Open Attic to R-50	All bypasses shall be sealed before insulating in such a manner that the movement of air through the bypass is essentially stopped. Blow insulation to depth indicated on manufacturer's coverage chart, consistently and evenly to R-50. Insulation in the peak attic must be marked with a ruler to measure depth and a sign with the number of bags used and the date of the installation.	**This is main peak attic.**
512	Dense Pack Slants to capacity with cellulose	Determine cavities are free of hazards and can support dense packing pressures, locate drilling hazards, control dust when drilling from interior. Blow Slant walls with cellulose to capacity using the Dense Pack Method to a minimum density 3.5 lbs/ft^2.	
524	Insulate Flat Roof	All bypasses shall be sealed before insulating in such a manner that the movement of air through the bypass is essentially stopped. "Essentially stopped" means that air leakage will not be detected by an infrared scan when the house is pressurized to 30 Pascals. Insulate to R-50. If there is not enough room, insulate to capacity.	**Dormer roof attic.**
532	Build Dam, insulate and weather strip attic hatch	Access hatch door to attic shall be insulated to R-50 and insulation dam constructed around opening. Opening shall be weather stripped to provide a tight seal.	
602	Wall insulation - Exterior Application: Remove Siding, Drill, Dense Pack, Plug and Replace Siding	Siding shall be removed before drilling access holes. Determine cavities are free of hazards and can support dense packing pressures, locate drilling hazards, control dust when drilling from interior. Completely fill each cavity to a consistent density. Dense pack cellulose to a minimum density of 3.5 lbs/ cubic foot or dense pack spider fiberglass per manufacturer's instructions. Siding must be replaced without damage and nailed back with appropriate galvanized nails.	**Option 1.**
616	Wall insulation - Interior Application: Dense Pack Cellulose	Exterior walls insulated from inside the house shall be drilled through to provide access.	**Option 2.**

620	Wall insulation - Interior Application: Spray foam open cavities	Follow manufacturer's instructions to completely and evenly fill the cavity. Call the NEC for inspection before sheet rocking.	**Option 3.**
800	Air Seal Rim Joist	Seal cracks and holes in rim joist using caulk, foam or other air tight materials.	
1000	Install ENERGY STAR Rated Kitchen Fan	Install an ENERGY STAR rated exhaust fan connected with insulated rigid ductwork into a dampered vent.	
1010	Install ENERGY STAR Rated 2-stage Bathroom Fan	Install an ENERGY STAR rated two-speed bathroom fan .8 sones or less, with a pre-set low-speed of 10-30 CFM and a high-speed boost capability of 70-110 CFM initiated by a wall switch or motion detector. Vent bathroom fan using rigid duct and insulated with fiberglass and vented out with dampered roof vent.	
1200	Replace incandescents with CFLs	Replace incandescent bulbs with ENERGY STAR rated compact fluorescent lights. Install fixtures that meet the lighting needs of the particular area.	
1210	Install ENERGY STAR Rated Washing Machine	Connect new ENERGY STAR rated clothes washer sized appropriately for the household. Use braided steel water supply lines and a smooth rubber drain line connected to a 2 inch drain with trap. Remove existing washer, recycle all metal components and dispose of all other materials in a code legal dump.	
1212	Install ENERGY STAR Rated Dishwasher	Install ENERGY STAR rated dishwasher including all alterations and connections to plumbing and electric system. Remove existing dishwasher, recycle all metal components and dispose of all other materials in a code legal dump.	
1214	Install ENERGY STAR Rated Refrigerator	Install ENERGY STAR rated refrigerator sized appropriately for the household. Remove existing refrigerator, recycle all metal components and dispose of all other materials in a code legal dump.	

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Asbestos Abatement Associates
3125 Logan Ave. N., Minneapolis, MN 55411

Asbestos/Hazardous Materials Survey
Residential Property
653 Cook Ave.
St. Paul, MN 55106

Prepared by:
Asbestos Abatement Associates
3125 Logan Ave. N.
Mpls., MN 55411

Prepared for:
City of St. Paul
Cindy Carlson
25 West 4th St. #1100
St. Paul, MN 55102

Richard Pruitt #1207
January 23, 2012

R C Pruitt
(Signature)

1-23-2012
(Date)

North Metro: 612-588-7755
St. Paul: 651-633-4060
South Metro: 612-823-2955
Fax: 612-588-6780
Email: abatenow@popp.net

★ A ★
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Asbestos Abatement Associates
3125 Logan Ave. N., Minneapolis, MN 55411

Project Description
653 Cook Ave., St. Paul, MN

Asbestos Abatement Associates was retained by Cindy Carlson of the City of St. Paul to conduct an Asbestos/Hazardous Materials Survey for a residential home located at 653 Cook Ave., St. Paul, MN. We were asked to prepared this report (the Survey) and report the findings of the Survey.

The reason for the visit is to identify friable and non-friable asbestos containing materials which may become friable during renovation or demolition.

The home is approximately 128 years old. It has 2 levels and is approximately 1,782 sq. ft. The structure is made of stone footing and foundation with concrete flooring in the partial basement. It is wood framed and sided. There are hardwood floor throughout. The walls and ceilings are plaster. The attic and walls are insulated with cellulose. There is a newer furnace and ducting in the basement with some Asbestos paper on the boots, ducts, and heat vents. The three (3) ducts that run to the 2nd floor also has Asbestos paper. The home has asphalt roofing. There is no garage but a slab remains that is 22x22.

This Survey represented by Richard Pruitt on January 23, 2012. The Survey Area consisted of accessible portions of the Building at the time of the Survey.

Copies of Mr. Pruitt's Asbestos Inspector certificate and license are included.

North Metro: 612-588-7755
St. Paul: 651-633-4060
South Metro: 612-823-2955
Fax: 612-588-6780
Email: abatenow@popp.net

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Asbestos Abatement Associates
3125 Logan Ave. N., Minneapolis, MN 55411

Scope of Services
653 Cook Ave., St. Paul, MN

- A destructive assessment of accessible portions of the building was conducted Richard Pruitt, Asbestos Building Inspector **#1207.** Suspect Asbestos containing building materials were identified per current Minnesota Department of Health (MDH) Asbestos Abatement Rules and Occupational Safety and Health Administration (OSHA) regulations.

- Samples of suspect ACM identified during the Survey were collected for laboratory analysis in accordance with MDH and OSHA regulations.

- The location, estimated quantity, and condition of suspect ACM were documented.

- The presence and/or quantity of other materials such as hazardous wastes or building materials that would be classified as special wastes for demolition were documented.

- The presence and/or quantity of equipment that could contain polychlorinated biphenyls (PCBs), ozone depleting chemicals (ODCs), and mercury or other regulated metals was documented.

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St. Paul: 651-633-4060 *Fax: 612-588-6780*
Email: abatenow@popp.net

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Asbestos Abatement Associates
3125 Logan Ave. N., Minneapolis, MN 55411

Sampling Methodology
653 Cook Ave., St. Paul, MN

- Asbestos Abatement Associates identified homogenous building materials in accordance with the Environmental Protection Agency (EPA) Asbestos Hazardous Emergency Response Act (AHERA) 40 CFR Part 763, Subpart E as specified in MDH and OSHA rules and regulations. Homogenous areas are defined as areas of surfacing materials, thermal system insulation materials or other miscellaneous materials which upon examination for properties such as age, color, size and texture appear to be composed of the same material.

- The building materials are collected from randomly selected locations throughout the building where the material is found to be present. Samples of these materials are assumed to be representative of that material wherever it is found throughout the building.

- Samples of potential ACMs were collected by Asbestos Abatement Associates and were analyzed using Polarized Light Microscopy (PLM) by Carolina Environmental, Inc., in Cary, NC. NVLAP's National Voluntary Laboratory Accreditation Program code number is 10768-0. (Copy of Lab Qualification Included) The MDH, OSHA, and EPA define ACM as a material which contains greater than one percent asbestos by qualitative or quantitative analysis

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Email: abatenow@popp.net

techniques. The EPA's National Emission Standard for Hazardous Air Pollutants (NESHAP) requires quantitative analysis, commonly referred to as a "point count", for all qualitative analysis results when asbestos is detected in concentrations less than one to ten percent. However, under common practice, qualitative results greater than three and less than ten percent are often accepted to be ACM.

Testing Results

Asbestos Abatement Associates collected a total of thirteen (13) samples of suspect (ACM) that were analyzed by Carolina Environmental, Inc.

See Survey/Sample Results in table on the next pages with the sample results in the page following.

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Asbestos Abatement Associates
3125 Logan Ave. N., Minneapolis, MN 55411

Sample Results
653 Cook Ave., St. Paul, MN

Assumed to Contain Asbestos related items are listed as follows:

- Boots in the basement 4 each with estimated cost for removal $75.00 each
- Paper on ducting in basement with estimated cost for removal $850.00
- Heat vents with paper 5 total with estimated cost for removal $75.00 each
- Ducting inside wall that runs from basement to 2nd floor with estimated cost for removal $850.00

All items tested were found to be non-asbestos containing listed as follows:

- Window glazing green front porch 6 total 1st floor
- Plaster skim and base coats den closet
- Sheetrock w/mud white kitchen
- Ceiling texture white bedroom #2 11x12
- Plaster skim and base coats bedroom #1 closet
- 1x1 Ceiling tile white bedroom #1 11x11
- 9x9 floor tile only peach basement landing 4x4
- Plaster skim and base coats bedroom #2 closet
- Adhesive tan upstairs bathroom 93 sq. ft.
- Window glazing green bedroom #1 upstairs 5 total
- Ceiling texture white kitchen 12x13
- Ceiling texture white dining room 11x12
- 2x4 ceiling tile tan kitchen 17x5

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St. Paul: 651-633-4060 *Fax: 612-588-6780*
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Hazardous Waste Items Found On Site

- 1 ballast
- 2 fluorescent bulbs
- 1 furnace
- 1 Refrigerator
- 1 Smoke Detector
- 1 alarm system
- 1 Thermostat
- 1 water heater

The estimated cost for removal of Hazardous Waste items is $350.00.

A12.0476

CAROLINA ENVIRONMENTAL, INC.

ASBESTOS BULK INSPECTION

Client: Asbestos Abatement Associates
Project: City of St. Paul
Address: 653 Cook Ave.
City, State: St. Paul 55106

pg 1 of 2

Date: 1/16/2012
Inspector: Richard Pruitt
Project #:

Sample Number	Material	Physical Description	Location	Asbestos Type	Approximate Percent
1	Window Glazing	Painted Green	Front Porch 6- 1st Floor		
2	Plaster	Skim-cream, Base-cementuous	Den-Closet		
3	Sheetrock w/ mud composite	White	Kitchen		
4	Ceiling Texture	White	Bedrm # 2 11x12		
5	Plaster	Skim - white Base - cementuous	Bedrm #1 Closet		
6	Ceiling Tile 1x1	White	Bedrm #1 11x11		
7	9x9 Floor Tile - only	Peach	Basement Landing 4x4		
8	Plaster	Skim - white Base - cementuous	Bedrm # 2 Closet		
9	Adhesive	Tan	upstairs BATHROOM 93sq. Ft.		
10	Window Glazing	Painted Green	Bedrm #1 upstairs 5 total		

FT = Floor Tile CT = Ceiling Tile WB/BD = Wallboard JC = Joint Compound CSPRY = Ceiling Spray On

A12.0476

CAROLINA ENVIRONMENTAL, INC.

ASBESTOS BULK INSPECTION

Client: Asbestos Abatement Associates
Project: City of St. Paul
Address: 653 Cook Ave.
City, State: St. Paul 55106

pg. 2 of 2

Date: 1/16/2012
Inspector: Richard Pruitt
Project #:

Sample Number	Material	Physical Description	Location	Asbestos Type	Approximate Percent
11	Ceiling Texture	White	Kitchen 12x13		
12	Ceiling Texture	White	Dining Room 11x12		
13	Ceiling Tile 2x4	TAN	Kitchen 17x5		

FT - Floor Tile CT - Ceiling Tile WB/BD - Wallboard JC - Joint Compound CLSPRY - Ceiling Spray On

CEI Labs
107 New Edition Court, Cary, NC 27511
Phone: (919) 481-1413 Fax: (919) 481-1442

LABORATORY REPORT
ASBESTOS BULK ANALYSIS

Client: **Asbestos Abatement Associates**
3125 Logan Ave. N.
Minneapolis , MN 55411

Project: City of St. Paul: 653 Cook Ave.

CEI Lab Code: A12-0476
Received: 01-19-12
Analyzed: 01-20-12
Reported: 01-20-12
Analyst: Madison M. Roberts

CLIENT ID	CEI LAB ID	HOMOGENEITY DESCRIPTION	% ASBESTOS
1	A1242148	GLAZING	ND
	Heterogeneous,	Tan, Red, Non-fibrous, Bound	
		BIND 50 %	
		CACO 50 %	
2	A1242149A	PLASTER SKIM COAT	ND
	Heterogeneous,	White, Non-fibrous, Bound	
		BIND 50 %	
		CACO 50 %	
	A1242149B	PLASTER BASE COAT	ND
	Heterogeneous,	Grey, Non-fibrous, Bound	
		BIND 30 %	
		SILI 70 %	
3	A1242150	SHEETROCK/MUD	ND
	Heterogeneous,	White, Fibrous, Bound	
		GYPSUM 65 % CELL 15 %	
		BIND 20 %	
4	A1242151	TEXTURE	ND
	Heterogeneous,	White, Fibrous, Bound	
		CACO 45 %	
		BIND 45 %	
		FOAM 10 %	
5	A1242152A	PLASTER SKIM COAT	ND
	Heterogeneous,	White, Non-fibrous, Bound	
		BIND 50 %	
		CACO 50 %	

CEI Labs
107 New Edition Court, Cary, NC 27511
Phone: 919-481-1413 Fax: : 919-481-1442

Project: City of St. Paul: 653 Cook Ave.

Lab Code: A12-0476

CLIENT ID	CEI LAB ID	HOMOGENEITY DESCRIPTION				% ASBESTOS
	A1242152B	PLASTER BASE COAT				ND
	Heterogeneous,	Grey, Non-fibrous, Bound				
		BIND	30 %			
		SILI	70 %			
6	A1242153	CEILING TILE				ND
	Heterogeneous,	White, Fibrous, Bound				
		BIND	15 %	CELL	80 %	
		PAINT	5 %			
7	A1242154A	FLOOR TILE				ND
	Heterogeneous,	Beige, Fibrous, Bound				
		VINYL	100 %			
	A1242154B	MASTIC/BACKING				ND
	Heterogeneous,	Black, Fibrous, Bound				
		TAR	25 %	CELL	75 %	
8	A1242155A	PLASTER SKIM COAT				ND
	Heterogeneous,	White, Non-fibrous, Bound				
		BIND	50 %			
		CACO	50 %			
	A1242155B	PLASTER BASE COAT				ND
	Heterogeneous,	Grey, Non-fibrous, Bound				
		BIND	30 %			
		SILI	70 %			
9	A1242156	ADHESIVE				ND
	Heterogeneous,	Tan, Non-fibrous, Bound				
		MAST	100 %			

CEI Labs
107 New Edition Court, Cary, NC 27511
Phone: 919-481-1413 Fax: : 919-481-1442

Project: City of St. Paul: 653 Cook Ave.

Lab Code: A12-0476

CLIENT ID	CEI LAB ID	HOMOGENEITY DESCRIPTION				% ASBESTOS
10	A1242157	GLAZING				ND
	Heterogeneous,	Tan, Non-fibrous, Bound				
		BIND	50 %			
		CACO	50 %			
11	A1242158	TEXTURE				ND
	Heterogeneous,	White, Fibrous, Bound				
		CACO	45 %			
		BIND	45 %			
		FOAM	10 %			
12	A1242159	TEXTURE				ND
	Heterogeneous,	White, Fibrous, Bound				
		CACO	45 %			
		BIND	45 %			
		FOAM	10 %			
13	A1242160	TEXTURE				ND
	Heterogeneous,	White, Fibrous, Bound				
		PERL	15 %	CELL	80 %	
		PAINT	5 %			

The following definitions apply to the abbreviations used in the ASBESTOS BULK ANALYSIS REPORT:

CHRY = Chrysotile	CELL = Cellulose	DEBR = Debris
AMOS = Amosite	FBGL = Fibrous Glass	BIND = Binder
CROC = Crocidolite	CACO = Calcium Carbonate	SILI = Silicates
TREM = Tremolite	SYNT = Synthetics	GRAV = Gravel
ANTH = Anthophyllite	WOLL = Wollastonite	MAST = Mastic
ACTN = Actinolite	CERWL = Ceramic Wool	PLAS = Plaster
N D = None Detected	NTREM = Non-Asbestiform Tremolite	PERL = Perlite
NANTH = Non-Asbestiform Anthophyllite	FBGY = Fibrous Gypsum	RUBR =Rubber
		VER =Vermiculite

CLIENT: Asbestos Abatement Associates

PROJECT: City of St. Paul: 653 Cook Ave.

CEI LAB CODE: A12-0476

Stereoscopic microscopy and polarized light microscopy coupled with dispersion staining is the analytical technique used for sample identification. The percentage of each component is visually estimated by volume. These results pertain only to the samples analyzed. The samples were analyzed as submitted by the client and may not be representative of the larger material in question. Unless notified in writing to return samples, CEI Labs will discard all bulk samples after 30 days.

Many vinyl floor tiles have been manufactured using greater than 1% asbestos. Often the asbestos was milled to a fiber size below the detection limit of polarized light microscopy. Therefore, a "None Detected" (ND) reading on vinyl floor tile does not necessarily exclude the presence of asbestos. Transmission electron microscopy provides a more conclusive form of analysis for vinyl floor tiles.

It is certified by the signature below that CEI Labs is accredited by the National Voluntary Accreditation Program (NVLAP) for the analysis of asbestos in bulk materials. The accredited test method is EPA / 600 / M4-82 / 020 for the analysis of asbestos in building materials. Procedures described in EPA / 600 / R-93 / 116 have been incorporated where applicable. The detection limit for the method is 0.1% (trace amount). CEI Labs's NVLAP accreditation number is #101768-0. This report is not to be used to claim product endorsement by NVLAP or any agency of the U. S. Government. This report and its contents are only valid when reproduced in full. Dust and soil analyses for asbestos using PLM are not covered under NVLAP accreditation.

ANALYST _____

REVIEWED BY _____

Tianbao Bai, Ph.D.
Laboratory Director

End of Report

★ A ★
★ A ★ A ★
Asbestos Abatement Associates
3125 Logan Ave. N., Minneapolis, MN 55411

The structure is ready to be demolished only after the Friable Asbestos containing items are removed by an Asbestos contractor. The non-friable Asbestos can remain in place for demolition but you must make the landfill aware the debris has non-friable class nine materials mixed in. Non Friable Asbestos containing materials are subject to the MPCA rules and notifications.

All hazardous materials need to be managed properly and removed prior to demolition. The following is a sample of hazardous building materials:

- Polychlorinated Biphenyls (PCBS) found in light ballasts, capacitors, HVAC systems, and transformers.
- Mercury found in fluorescent lamps, switches, vapor lamps, thermostats, metal halide lamps, high pressure sodium lamps, neon lamps, manometers, and gauges. Many mercury containing materials were used in appliances, HVAC systems, or industrial switches or controls, thermocouples, temperature sensors, and other electrical equipment.
- Pb based paint that is not adhering to the substrate.
- Refrigerants/CFCs/HCFCs are found in refrigerators, AC systems, drinking fountains, dehumidifiers, vending machines, heat pumps, chillers, freezers, ice machines, food display cases.
- Appliances including stoves, refrigerators, furnaces, air exchangers, water heaters, etc.
- Chemicals, oils, batteries, paint cans, agricultural chemicals, other hazardous building materials.
- Trash, furniture, mattresses, engine parts, construction waste, etc.

Sincerely,
Richard Pruitt
Richard Pruitt

North Metro: 612-588-7755
St. Paul: 651-633-4060
South Metro: 612-823-2955
Fax: 612-588-6780
Email: abatenow@popp.net

★ A ★
★ A ★ A ★
Asbestos Abatement Associates
3125 Logan Ave. N., Minneapolis, MN 55411

Sampling Area Measurements for Abatement
653 Cook Ave., St. Paul, MN

Assumed: boots in basement	4 each
Assumed: paper on ducting in basement	16-20 linear ft.
Assumed: heat vents with paper	5 total @ 2 sq. ft. each
Assumed: ducting inside walls that run from basement to 2nd floor	approx. 60 sq. ft.

North Metro: 612-588-7755 *South Metro: 612-823-2955*
St. Paul: 651-633-4060 *Fax: 612-588-6780*
Email: abatenow@popp.net


5x17
39
5x15
front porch
23


01/14/2012 16:18

United States Department of Commerce
National Institute of Standards and Technology

NVLAP®

Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 101768-0

Carolina Environmental, Inc.

Cary, NC

is accredited by the National Voluntary Laboratory Accreditation Program for specific services, listed on the Scope of Accreditation, for:

BULK ASBESTOS FIBER ANALYSIS

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).

2009-04-01 through 2010-03-31

Effective dates

Sally S. Bruce

For the National Institute of Standards and Technology

NVLAP-01C (REV. 2009-01-28)

NVLAP® National Voluntary Laboratory Accreditation Program

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

Carolina Environmental, Inc.
107 New Edition Court
Cary, NC 27511
Dr. Tianbao Bai
Phone: 919-481-1413 Fax: 919-481-1442
E-Mail: bai@ceilabs.com
URL: http://www.ceilabs.com

BULK ASBESTOS FIBER ANALYSIS (PLM) **NVLAP LAB CODE 101768-0**

NVLAP Code	***Designation / Description***
18/A01	EPA-600/M4-82-020: Interim Method for the Determination of Asbestos in Bulk Insulation Samples

2009-04-01 through 2010-03-31
Effective dates

Sally S. Bruce
For the National Institute of Standards and Technology

Certificate No: 5LM04041112IR

Expiration Date: April 4, 2012

This is to certify that

Richard C. Pruitt

has attended and successfully completed an

ASBESTOS INSPECTOR
REFRESHER TRAINING COURSE

permitted by
the State of Minnesota under Minnesota Rules 4620.3702 to 4620.3722
and meets the requirements of
Section 206 of Title II of the Toxic Substances Control Act (TSCA)
conducted by

Lake States Environmental, Ltd.

in

White Bear Lake, MN on April 4, 2011
Examination Date: April 4, 2011

Lake States Environmental, Ltd
P. O. Box 645, Rice Lake, WI 54868
(800) 254-9811

Training Instructor

MDH

Certified by:
State of Minnesota
Department of Health
Expires: 04/04/2012

Richard C Pruitt
3125 Logan Ave No
Minneapolis, MN 55411

Director, Env. Health Div

No AI1207

Issued: 04/19/2011

Angstrom Analytical &
Environmental Services

5001 Cedar Lake Road * St. Louis Park, MN 55416
952-252-0405 952-252-0407 fax

January 25, 2012

Asbestos Abatement Associates
3125 Logan Ave N
Minneapolis, MN 55411
612-588-7755

Owner:
City of St. Paul
15 Kellogg Blvd.
St. Paul, MN 55102
651-266-8989

Lead-Based Paint Inspection
653 Cook Ave. St. Paul, MN

This report provides the results of lead-based paint testing conducted on January 20, 2012 at 653 Cook Ave. The property is a single-family residential property located in St. Paul, MN. The inspection was conducted by Kevin Hagen (MN Lic. No. LR 2036). Angstrom Analytical, Inc. was authorized by you to conduct an inspection for lead-based paint using a field portable x-ray fluorescence (XRF) analyzer. The purpose of this assessment was to determine if lead based paint exists at the above referenced property.

The property consists of a two story single family home with a half basement. The basement is unfinished. There was no garage on the property. According to Zillow.com the property was built in 1884. For sample location purposes, side A of the building is the side facing Cook Ave. and is lettered clockwise around the building. The exteriors consist of a wood lap siding. There is also wood trim work, fascia, soffit and metal gutters, Building foundation is concrete. Bare soil was not observed around the property due to the snow cover. No soil samples were collected. At a minimum, the Minnesota Dept. of Health recommends bare soils be made intact by covering them over with either sod, landscaping stone or mulch.

Some interior has been remodeled with most of the windows being painted, uniform in size and are of the double hung type. The cabinets in the bathrooms and kitchen are painted and the closed shelf components are painted.

Results
Results of XRF analysis are summarized in the following report (see Appendix A), which utilize Department of Housing and Urban Development (HUD) thresholds (see remarks) for lead-based

paint. Painted surfaces are rated on condition as Intact, Fair or Poor. Intact surfaces are free of visual damage/deterioration. Fair or poor rating indicates the paint is damaged and is deteriorated. Any condition listed as fair or poor is a deteriorated condition. The inspection was conducted using HUD "Guidelines for the Evaluation and Control of Lead Based Paint in Housing" using the October 1997 revised Chapter 7 protocols. The sampling criteria used are found in the HUD Standards 24 CFR Part 35 et al.

Methodology

Testing was accomplished using a Niton XL 300 series. This instrument is a portable, non-destructive, in-site testing and measurement instrument that renders an average precision of +/- 0.3 milligrams per square centimeter (mg/cm^2) depending upon the length of time the sample point is tested. The XRF uses a source of Cd-109. Specific precision limits are established by the National Institute of Standards and Technology (NIST). The XRF instrument was checked using the NIST Standard Reference for calibration checks. The instrument's operational mode is standard paint mode. This instrument is operated by Minnesota Department of Health licensed lead inspectors. Where conclusive results were not obtained by XRF testing, confirmatory paint chip samples were or can be collected for laboratory analysis. The XRF instrument was calibrated, using a known lead paint film, at the beginning, every four hours and at the end of each day.

Remarks

The Lead-Based Paint Poisoning Prevention Act (LBPPA) has established an action level for public housing. Under the statute, lead-based paint hazards equal to or greater than 1.0 mg/cm^2 or 0.5 percent by weight must be abated. It is important to keep in mind that the testing results of a component also apply to any similar component not tested. For example, if a white, painted baseboard tests positive then the entire white painted baseboard in that room is also considered positive.

All sampling was conducted by representatives of Angstrom Analytical, Inc. Standards for private or commercial housing may vary by locality.

Results

The results of the portable x-ray fluorescence (XRF) analysis of the representative building components are listed in appendix A. All paint testing was conducted using the XRF unit. The XRF was calibrated and the beginning of each days inspection, during the inspection and at the end of each days inspection. Calibration was conducted on known lead paint films provided by the manufacturer. The results of the calibrations are within acceptable limits of the Performance Characteristic Sheet for the instrument. XRF results are expressed in units of milligrams per square centimeter (mg/cm^2) (see Remarks for action levels). XRF results are classified as positive or negative. A component that tests positive indicates leads is present at or above the standard (see Remarks).

Discussion

Painted building components were assessed visually for condition. Paint is rated on its condition as intact, fair and poor. Intact means good condition, Fair means less than two square feet of damage to a large interior surface or less than 10 square feet to a large exterior surface or less than 10% damage to a small surface area. Poor condition means greater than 2 square feet of damage on large interior surface, more than 10 square feet on a large exterior surface or more than 10% damage to a small surface area. Painted surfaces listed as in fair or poor condition are considered deteriorated. Based on our inspection findings, lead based paint was identified on the following:

- Walls and ceilings
- Window components
- Doors and door components
- Baseboards
- Chair rail molding
- Exterior siding
- Exterior trim work

Lead Based Painted Components

- The beige painted wood walls in the kitchen.
- The white painted drywall ceiling in the kitchen.
- The beige painted wood window trim in the 1st floor bathroom.
- The white painted wood baseboard in the dining room.
- The white painted wood door frame in the dining room.
- The white painted wood window components in the dining room.
- The beige painted drywall walls in the dining room.
- The beige painted drywall walls in the living room.
- The white painted drywall walls in the living room.
- The white painted drywall ceiling in the living room.
- The white painted wood baseboard in the living room.
- The white painted wood window components in the living room.
- The white painted wood door frame in the living room.
- The white painted wood siding on the front porch.
- The white painted wood walls on the front porch.
- The green painted wood window on the front porch.
- The white painted wood ceiling on the front porch.
- The white painted wood door trim on the front porch.
- The white painted wood stringer leading to 2nd floor.

- The white painted wood window components in the south bedroom.
- The white painted wood baseboard in the south bedroom.
- The white painted wood door trim in the south bedroom.
- The beige painted drywall walls in the south bedroom.
- The beige painted wood window components in the center bedroom.
- The beige painted wood door trim in the center bedroom.
- The beige painted wood door and door trim in the north bedroom.
- The beige painted wood baseboard in the north bedroom.
- The beige painted wood window components in the north bedroom.
- The white painted drywall walls in the 2nd floor bathroom.
- The white painted drywall ceiling in the 2nd floor bathroom.
- The white painted wood wall in the stairwell leading to the basement.
- The white painted wood chair rail in the stairwell leading to the basement.
- The exterior white painted wood siding.
- The green painted wood window components throughout exterior.
- The green painted wood trim and soffit on the exterior.

Please refer to the Lead Based Paint Testing Report (Appendix A) for specific locations and conditions. At a minimum, surfaces in fair to poor condition need to be stabilized. Intact lead based paint surfaces are not considered a hazard. However they do need to be maintained in an intact condition and periodically monitored. Specific surfaces not identified in this report should be treated as lead based unless testing proves otherwise.

Recommendations

Angstrom Analytical recommends that lead related work be performed by trained individuals and follow all applicable regulations regarding lead and lead hazards. If you are using federal funding you are required to use qualified firms, knowledgeable in hazards associated with lead and are certified / licensed to perform lead remediation services. A copy of this report must be provided to purchasers/lessees on this property under Federal law, 24 CFR part 35 and 40 CFR part 745.

If you have any questions or need further assistance, please call us at the number above.

Sincerely,

Kevin Hagen
Angstrom Analytical, Inc.

437	1/23/2012 8:19	SHUTTER_CAL												3.09	0
438	1/23/2012 8:25	PAINT	cal in					653 cook				Positive	1.2	0.1	
439	1/23/2012 8:25	PAINT	cal in					653 cook				Positive	1	0.1	
440	1/23/2012 8:26	PAINT	cal in					653 cook				Positive	1.1	0.1	
441	1/23/2012 8:29	PAINT	WALL	DRYWALL	C	INTACT	BEIGE	653 cook	KH	FIRST	KITCHEN	Negative	< LOD	0.03	
442	1/23/2012 8:30	PAINT	WALL	WOOD	A	INTACT	BEIGE	653 cook	KH	FIRST	KITCHEN	Positive	37	9.4	
443	1/23/2012 8:30	PAINT	CEILING	DRYWALL		INTACT	WHITE	653 cook	KH	FIRST	KITCHEN	Positive	2.1	0.8	
444	1/23/2012 8:31	PAINT	WINDOW trim	WOOD	C	INTACT	TAN	653 cook	KH	FIRST	KITCHEN	Negative	< LOD	0.03	
445	1/23/2012 8:31	PAINT	BASEBOARD	WOOD	C	INTACT	TAN	653 cook	KH	FIRST	KITCHEN	Negative	< LOD	0.05	
446	1/23/2012 8:32	PAINT	DOOR	METAL	B	INTACT	TAN	653 cook	KH	FIRST	KITCHEN	Negative	< LOD	0.03	
447	1/23/2012 8:32	PAINT	DOOR trim	WOOD	B	INTACT	TAN	653 cook	KH	FIRST	KITCHEN	Negative	< LOD	0.03	
448	1/23/2012 8:33	PAINT	CABINET	WOOD	B	INTACT	BEIGE	653 cook	KH	FIRST	KITCHEN	Negative	< LOD	0.03	
449	1/23/2012 8:33	PAINT	BASEBOARD	WOOD	A	INTACT	BEIGE	653 cook	KH	FIRST	KITCHEN	Negative	< LOD	0.04	
450	1/23/2012 8:34	PAINT	BASEBOARD	WOOD	B	INTACT	BEIGE	653 cook	KH	FIRST	BATHROOM	Negative	< LOD	0.03	
451	1/23/2012 8:35	PAINT	DOOR trim	WOOD	B	INTACT	BEIGE	653 cook	KH	FIRST	BATHROOM	Negative	< LOD	0.05	
452	1/23/2012 8:35	PAINT	DOOR	WOOD	B	INTACT	BROWN	653 cook	KH	FIRST	BATHROOM	Negative	< LOD	0.03	
453	1/23/2012 8:36	PAINT	WINDOW	WOOD	D	INTACT	BEIGE	653 cook	KH	FIRST	BATHROOM	Negative	0.7	0.2	
454	1/23/2012 8:37	PAINT	WINDOW trim	WOOD	D	INTACT	BEIGE	653 cook	KH	FIRST	BATHROOM	Positive	1.1	0.1	
455	1/23/2012 8:37	PAINT	WALL	DRYWALL	C	INTACT	RED	653 cook	KH	FIRST	BATHROOM	Negative	< LOD	0.03	
456	1/23/2012 8:37	PAINT	CEILING	DRYWALL	C	INTACT	RED	653 cook	KH	FIRST	BATHROOM	Negative	< LOD	0.03	
457	1/23/2012 8:38	PAINT	BASEBOARD	WOOD	C	INTACT	WHITE	653 cook	KH	FIRST	dining	Positive	20.3	10.5	
458	1/23/2012 8:39	PAINT	DOOR frame	WOOD	C	INTACT	WHITE	653 cook	KH	FIRST	dining	Positive	20.3	6.4	
459	1/23/2012 8:39	PAINT	WINDOW	WOOD	B	INTACT	WHITE	653 cook	KH	FIRST	dining	Positive	22.8	7	
460	1/23/2012 8:40	PAINT	WINDOW trim	WOOD	B	INTACT	WHITE	653 cook	KH	FIRST	dining	Positive	19.4	6.4	
461	1/23/2012 8:40	PAINT	WALL	DRYWALL	A	INTACT	BEIGE	653 cook	KH	FIRST	dining	Positive	1.8	0.6	
462	1/23/2012 8:41	PAINT	CEILING	DRYWALL		INTACT	WHITE	653 cook	KH	FIRST	dining	Negative	< LOD	0.03	
463	1/23/2012 8:42	PAINT	WALL	DRYWALL	A	INTACT	BEIGE	653 cook	KH	FIRST	LIVING ROOM	Positive	2	0.9	
464	1/23/2012 8:43	PAINT	CEILING	DRYWALL		INTACT	WHITE	653 cook	KH	FIRST	LIVING ROOM	Null	1.3	0.3	
465	1/23/2012 8:43	PAINT	CEILING	DRYWALL		INTACT	WHITE	653 cook	KH	FIRST	LIVING ROOM	Positive	1.7	0.6	
466	1/23/2012 8:44	PAINT	BASEBOARD	WOOD	A	INTACT	WHITE	653 cook	KH	FIRST	LIVING ROOM	Positive	19.8	6.5	
467	1/23/2012 8:44	PAINT	WINDOW	WOOD	A	INTACT	WHITE	653 cook	KH	FIRST	LIVING ROOM	Positive	15	5.6	
468	1/23/2012 8:44	PAINT	WINDOW trim	WOOD	A	INTACT	WHITE	653 cook	KH	FIRST	LIVING ROOM	Positive	16.7	5.8	
469	1/23/2012 8:46	PAINT	DOOR frame	WOOD	D	INTACT	WHITE	653 cook	KH	FIRST	LIVING ROOM	Positive	19.4	6.3	
470	1/23/2012 8:47	PAINT	vent	METAL	C	INTACT	black	653 cook	KH	FIRST	LIVING ROOM	Negative	< LOD	0.03	
471	1/23/2012 8:48	PAINT	siding	WOOD	C	INTACT	WHITE	653 cook	KH	FIRST	PORCH	Positive	39.6	16.3	
472	1/23/2012 8:48	PAINT	WALL	WOOD	A	INTACT	WHITE	653 cook	KH	FIRST	PORCH	Positive	1.4	0.4	
473	1/23/2012 8:49	PAINT	WINDOW	WOOD	C	POOR	GREEN	653 cook	KH	FIRST	PORCH	Positive	1.4	0.4	
474	1/23/2012 8:50	PAINT	CEILING	WOOD		CRACKED	WHITE	653 cook	KH	FIRST	PORCH	Positive	28.3	8.1	
475	1/23/2012 8:50	PAINT	DOOR	METAL	C	INTACT	WHITE	653 cook	KH	FIRST	PORCH	Negative	< LOD	0.03	
476	1/23/2012 8:51	PAINT	DOOR trim	WOOD	C	INTACT	WHITE	653 cook	KH	FIRST	PORCH	Positive	31.7	5.1	
477	1/23/2012 8:51	PAINT	stringer	WOOD	B	INTACT	WHITE	653 cook	KH	FIRST	STAIR	Positive	19.6	6.5	
478	1/23/2012 8:52	PAINT	hand rail	WOOD	D	INTACT	WHITE	653 cook	KH	FIRST	STAIR	Negative	0.3	0.18	
479	1/23/2012 8:53	PAINT	WINDOW	WOOD	A	INTACT	WHITE	653 cook	KH	SECOND	south bedroom	Positive	27.9	7.8	
480	1/23/2012 8:54	PAINT	WINDOW trough	WOOD	A	POOR	GREEN	653 cook	KH	SECOND	south bedroom	Positive	38.9	16.2	
481	1/23/2012 8:55	PAINT	BASEBOARD	WOOD	A	INTACT	WHITE	653 cook	KH	SECOND	south bedroom	Positive	28.5	7.8	
482	1/23/2012 8:55	PAINT	DOOR	WOOD	C	INTACT	WHITE	653 cook	KH	SECOND	south bedroom	Negative	< LOD	0.23	
483	1/23/2012 8:55	PAINT	DOOR trim	WOOD	C	INTACT	WHITE	653 cook	KH	SECOND	south bedroom	Positive	17.7	6.1	
484	1/23/2012 8:56	PAINT	WALL	DRYWALL	C	INTACT	BEIGE	653 cook	KH	SECOND	south bedroom	Positive	11.9	5.2	
485	1/23/2012 8:56	PAINT	CEILING	DRYWALL		INTACT	WHITE	653 cook	KH	SECOND	south bedroom	Negative	< LOD	0.25	
486	1/23/2012 8:57	PAINT	CEILING	WOOD		INTACT	WHITE	653 cook	KH	SECOND	center bedroom	Negative	< LOD	0.24	
487	1/23/2012 8:58	PAINT	WALL	DRYWALL	A	INTACT	YELLOW	653 cook	KH	SECOND	center bedroom	Negative	< LOD	0.06	
488	1/23/2012 8:59	PAINT	WINDOW	WOOD	B	INTACT	BEIGE	653 cook	KH	SECOND	center bedroom	Positive	20.4	6.6	
489	1/23/2012 8:59	PAINT	WINDOW trim	WOOD	B	INTACT	BEIGE	653 cook	KH	SECOND	center bedroom	Positive	20	6.6	
490	1/23/2012 8:59	PAINT	BASEBOARD	WOOD	B	INTACT	BEIGE	653 cook	KH	SECOND	center bedroom	Positive	20.2	5.6	

491	1/23/2012 9:01	PAINT	DOOR	WOOD	C	INTACT	WHITE	653 cook	KH	SECOND	center bedroom	Negative	< LOD		0.03
492	1/23/2012 9:01	PAINT	DOOR trim	WOOD	C	INTACT	BEIGE	653 cook	KH	SECOND	center bedroom	Positive	20.3		10.4
493	1/23/2012 9:02	PAINT	DOOR trim	WOOD	B	INTACT	BEIGE	653 cook	KH	SECOND	north bedroom	Positive	7.7		3.3
494	1/23/2012 9:02	PAINT	DOOR	WOOD	B	INTACT	BEIGE	653 cook	KH	SECOND	north bedroom	Positive	15.5		5.5
495	1/23/2012 9:03	PAINT	BASEBOARD	WOOD	B	INTACT	BEIGE	653 cook	KH	SECOND	north bedroom	Positive	6.5		3.3
496	1/23/2012 9:03	PAINT	WALL	DRYWALL	B	INTACT	purple	653 cook	KH	SECOND	north bedroom	Negative	< LOD		0.1
497	1/23/2012 9:04	PAINT	CEILING	WOOD		INTACT	WHITE	653 cook	KH	SECOND	north bedroom	Negative	< LOD		0.2
498	1/23/2012 9:04	PAINT	WINDOW	WOOD	C	INTACT	BEIGE	653 cook	KH	SECOND	north bedroom	Positive	10.3		4.4
499	1/23/2012 9:05	PAINT	WINDOW trim	WOOD	C	INTACT	BEIGE	653 cook	KH	SECOND	north bedroom	Positive	4.6		2.2
500	1/23/2012 9:06	PAINT	BASEBOARD	WOOD	B	INTACT	purple	653 cook	KH	SECOND	north bedroom	Positive	9.3		3.3
501	1/23/2012 9:06	PAINT	WALL	PLASTER	B	POOR	BEIGE	653 cook	KH	SECOND	north bedroom	Null	< LOD		0.08
502	1/23/2012 9:06	PAINT	WALL	PLASTER	B	POOR	BEIGE	653 cook	KH	SECOND	north bedroom	Negative	< LOD		0.03
503	1/23/2012 9:09	PAINT	WALL	DRYWALL	B	INTACT	WHITE	653 cook	KH	SECOND	BATHROOM	Positive	16.1		6.1
504	1/23/2012 9:09	PAINT	CEILING	DRYWALL		INTACT	WHITE	653 cook	KH	SECOND	BATHROOM	Positive	16.5		3.7
505	1/23/2012 9:09	PAINT	WINDOW	WOOD	D	INTACT	TAN	653 cook	KH	SECOND	BATHROOM	Negative	< LOD		0.19
506	1/23/2012 9:10	PAINT	DOOR	WOOD	A	INTACT	TAN	653 cook	KH	SECOND	BATHROOM	Negative	< LOD		0.03
507	1/23/2012 9:10	PAINT	DOOR trim	WOOD	A	INTACT	TAN	653 cook	KH	SECOND	BATHROOM	Negative	< LOD		0.04
508	1/23/2012 9:12	PAINT	WALL	CONCRETE	A	POOR	WHITE	653 cook	KH	BASEMENT		Negative	< LOD		0.03
509	1/23/2012 9:12	PAINT	WINDOW	METAL	B	POOR	WHITE	653 cook	KH	BASEMENT		Negative	< LOD		0.2
510	1/23/2012 9:13	PAINT	WALL	CONCRETE	C	POOR	gray	653 cook	KH	BASEMENT		Negative	< LOD		0.03
511	1/23/2012 9:14	PAINT	TREAD	WOOD	C	POOR	gray	653 cook	KH	BASEMENT	STAIR	Null		0.7	0.3
512	1/23/2012 9:14	PAINT	TREAD	WOOD	C	POOR	gray	653 cook	KH	BASEMENT	STAIR	Null		0.7	0.3
513	1/23/2012 9:14	PAINT	TREAD	WOOD	C	POOR	gray	653 cook	KH	BASEMENT	STAIR	Negative		0.6	0.2
514	1/23/2012 9:15	PAINT	WALL	WOOD	D	INTACT	WHITE	653 cook	KH	FIRST	STAIR	Positive		12.2	4.8
515	1/23/2012 9:16	PAINT	chair rail	WOOD	D	INTACT	WHITE	653 cook	KH	FIRST	STAIR	Positive		8.6	4
516	1/23/2012 9:16	PAINT	WALL	PLASTER	D	CRACKED	WHITE	653 cook	KH	FIRST	STAIR	Negative		0.7	0.3
517	1/23/2012 9:17	PAINT	CEILING	PLASTER		INTACT	WHITE	653 cook	KH	FIRST	STAIR	Negative	< LOD		0.03
518	1/23/2012 9:17	PAINT	DOOR	WOOD	B	INTACT	TAN	653 cook	KH	FIRST	STAIR	Negative	< LOD		0.04
519	1/23/2012 9:17	PAINT	DOOR trim	WOOD	B	INTACT	BEIGE	653 cook	KH	FIRST	STAIR	Negative	< LOD		0.24
520	1/23/2012 9:19	PAINT	siding	WOOD	A	POOR	WHITE	653 cook	KH		OUTSIDE	Positive	4.5		1.9
521	1/23/2012 9:22	PAINT	WINDOW trim	WOOD	A	POOR	GREEN	653 cook	KH		OUTSIDE	Positive	2		0.8
522	1/23/2012 9:23	PAINT	sofit	WOOD	B	POOR	GREEN	653 cook	KH		OUTSIDE	Positive	11		1.6
523	1/23/2012 9:23	PAINT	WINDOW	WOOD	B	POOR	GREEN	653 cook	KH		OUTSIDE	Negative	0.5		0.2
524	1/23/2012 9:23	PAINT	WINDOW	WOOD	B	POOR	GREEN	653 cook	KH		OUTSIDE	Positive	27		7.8
525	1/23/2012 9:24	PAINT	DOOR	METAL	B	INTACT	gray	653 cook	KH		OUTSIDE	Negative	< LOD		0.03
526	1/23/2012 9:25	PAINT	siding	WOOD	B	POOR	WHITE	653 cook	KH		OUTSIDE	Positive	10.8		4.5
527	1/23/2012 9:25	PAINT	siding	WOOD	D	POOR	WHITE	653 cook	KH		OUTSIDE	Positive	11.1		4.4
528	1/23/2012 9:27	PAINT	cal out					653 cook	KH			Positive	1.1		0.1
529	1/23/2012 9:27	PAINT	cal out					653 cook	KH			Null	1		0.1
530	1/23/2012 9:27	PAINT	cal out					653 cook	KH			Positive	1.1		0.1
531	1/23/2012 9:28	PAINT	cal out					653 cook	KH			Positive	1.2		0.1

Minnesota Department of Health

has authorized

Angstrom Analytical, Inc.
5001 Cedar Lake Rd S
St Louis Park, Minnesota 55416

in accordance with Minnesota Statutes, section 144.9505 and Minnesota Rules, part 4761.2200, to practice in the State of Minnesota as a

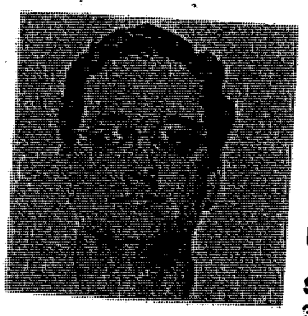
Certified Lead Firm

License No: LF127
Expires 12/08/2012

This certificate is nontransferable.

Linda B. Bruemmer

Linda B. Bruemmer, Director
Division of Environmental Health



Director, Env. Health Div.

MDH

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Expires 08/15/2012

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Director, Env. Health Div.

MINNESOTA MDH DEPARTMENT OF HEALTH

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Department of Health

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